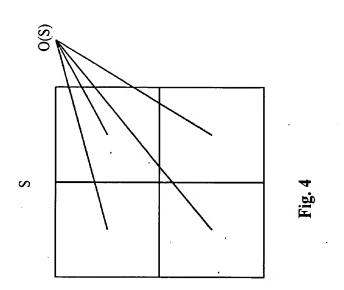
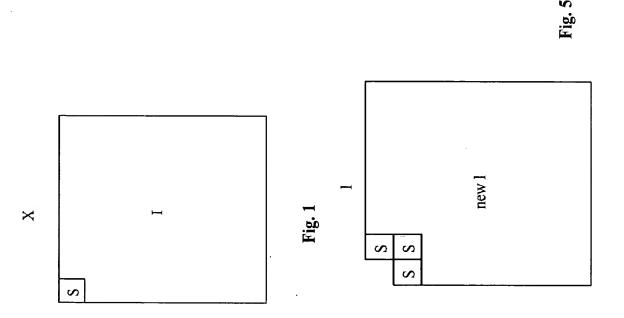
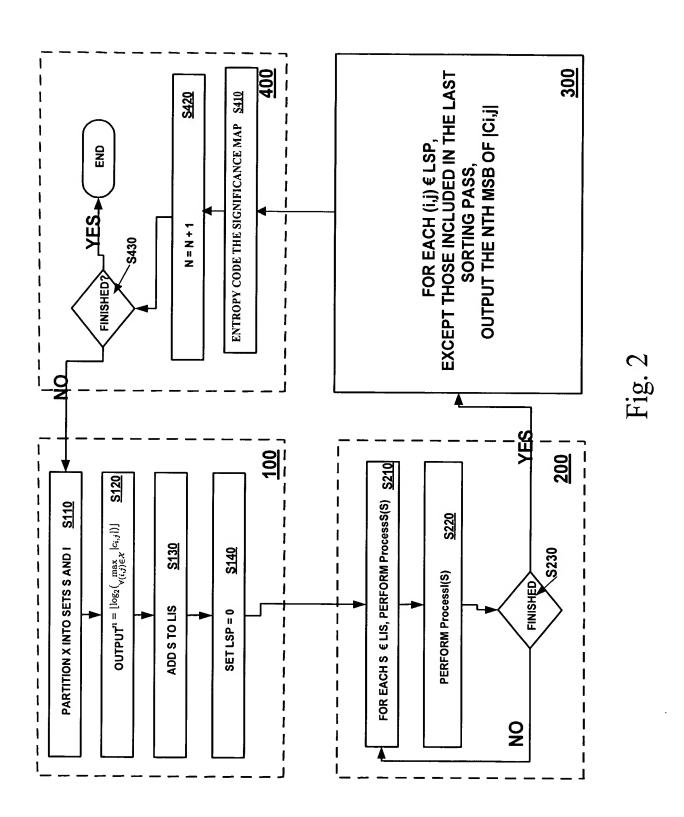
Docket No.: 3660.1000-001
Title: An Embedded and Efficient Low...
Inventors: William A. Pearlman, et al.





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William A. Pearlman, et al. Inventors:

output $\mathcal{S}_n(\mathcal{S})$

 $\operatorname{ProcessS}(S)$

if $S_n(S) = 1$

- if S is a pixel, output sign of S and add S to LSP

 $\operatorname{clsc}\, \operatorname{\texttt{CodeS}}(\mathcal{S})$

if $S \in LIS$, remove S from LIS I

if $S \notin LIS$, add S to LIS

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if $S_n(\mathcal{O}(\mathcal{S}))=1$ * if $\mathcal{O}(\mathcal{S})$ is a pixel, output sign of $\mathcal{O}(\mathcal{S})$ and add $\mathcal{O}(\mathcal{S})$ to LSP Partition S into four equal subsets O(S)* add $\mathcal{O}(S)$ to LIS - output $S_n(\mathcal{O}(S))$ • for each $\mathcal{O}(S)$ clsc $\mathtt{CodeS}(\mathcal{S})$

Fig. 3B

```
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                                                                                                                                                                                            Partition \mathcal I into four sets — three \mathcal S and one \mathcal I
                                                                                                                                                                                                                 \bullet for each of the three sets \mathcal S
                                                                                                                                                                                                                                           - ProcessS(S)
- CodeI()
                                                                                                                                                                                                                                                                    • ProcessI()
```

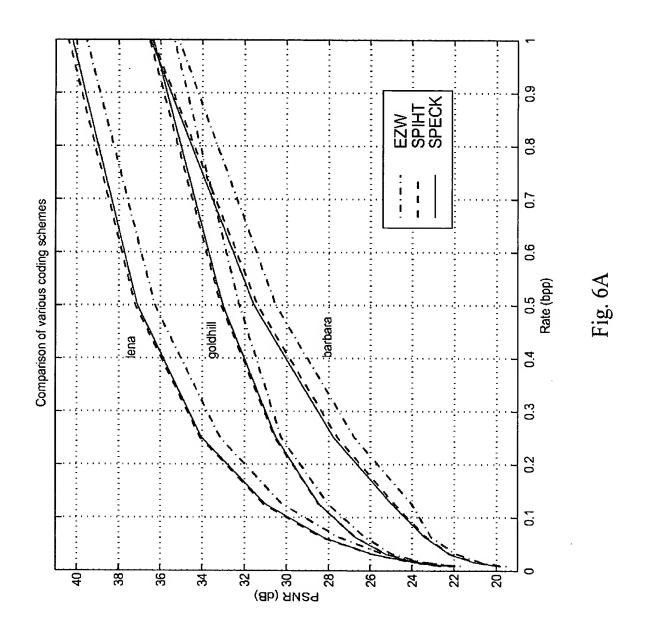
()Iepo)

output $S_n(\mathcal{I})$

 $\operatorname{ProcessI}()$

• if $S_n(\mathcal{I}) = 1$

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Fig. 6B PSNR at various rates for Lena (512 x 512)

37.10 dB

34.03 dB

AGP SPIHT SPECK

 $\overline{1.0}$ bpp

 $\overline{0.5}$ bpp

 $\overline{0.25}$ bpp

Coding method

39.55 dB 40.38 dB 40.44 dB 40.25 dB

36.28 dB

33.17 dB 34.10 dB 34.11 dB

37.21 dB

37.21 dB

	\bigcap	<u></u>	<u></u>	m	
1.0 bpp		35.14 dB	36.55 dB	36.41 dB	36.49 dB
0.5 bpp		30.53 dB	31.61 dB	31.40 dB	31.54 dB
0.25 bpp		26.77 dB	27.81 dB	27.58 dB	27.76 dB
Coding method 0.25 bpp		EZW	AGP	SPIHT	SPECK

Fig. 6C PSNR at various rates for Barbara (512 x 512)

1.0 bpp	36.20 dB	36.53 dB	36.55 dB	36 36 JB
	 	33.13 dB 36	$33.13 \mathrm{dB} \mid 36$	33 03 JB 36
pp 0.5				_
$0.25 \mathrm{br}$	30.31 dB	30.53 dB	30.56 dB	30.50 dB
Coding method 0.25 bpp 0.5 bpp	EZW	AGP	SPIHT	SPECK

Fig. 60 PSNR at various rates for Goldhill (512 x 512)

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Fig. 7B

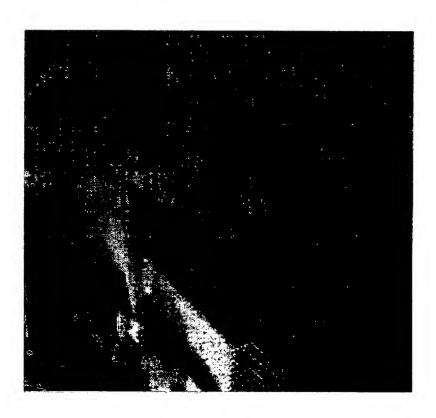
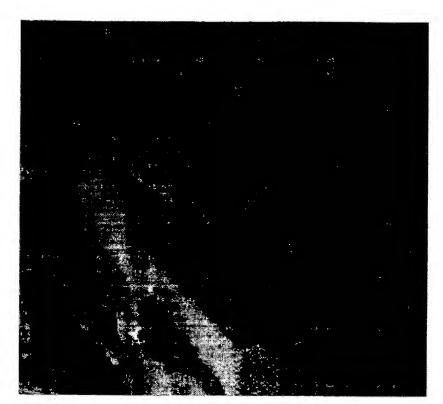


Fig. 7A

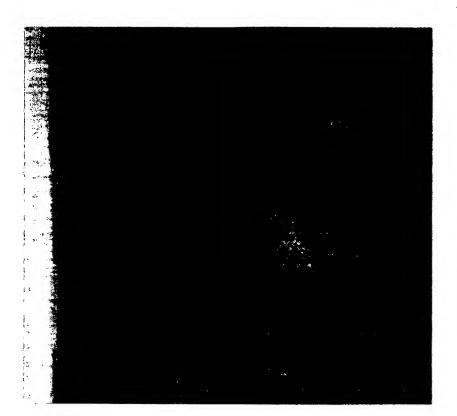
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Fig. 8B

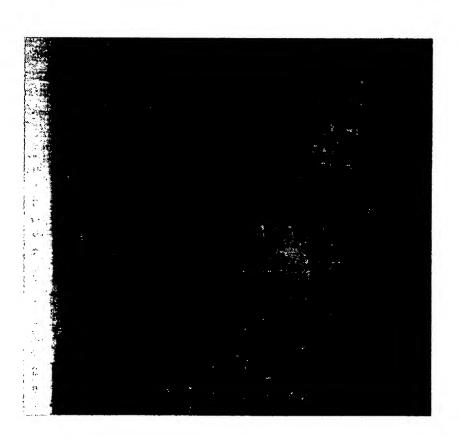


Fig. 8A

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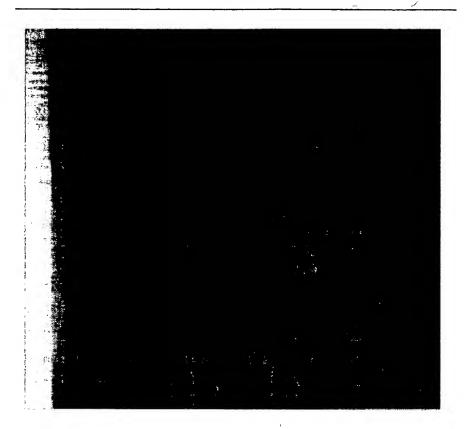
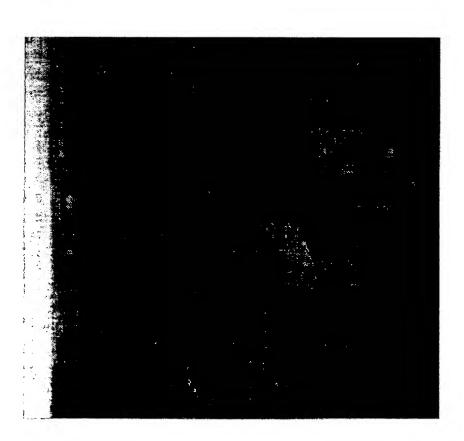


Fig. 8D





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